

B-1B

Status Report – July 2004
Wing Shear Bearing Maintenance Repair (SD11)

Contract No. F33657-01-D-2050
Delivery Order No. SD-11

PCO: Jerry Vann
CDRL Number: A00A

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Integrated Defense Systems
2401 E. Wardlow
Long Beach, CA 90807

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Air Force PCO: Jerry Vann
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Prepared by:
Lance Borden

Approved by:



F. L. Borden
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Shear Bearing Repair CFT



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The information in this document was requested by OC-ALC/PSKAB, Tinker AFB, OK 73145-5990 under Government Contract Number F33657-01-D-2050 and is approved for public release; distribution is unlimited. However, it does not necessarily bear the endorsement of the requesting agency.

Date: 05 August 2004

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FOREWORD

The B-1B Structures & Flight Sciences Department of The Boeing Company Integrated Defense Systems Group, Long Beach, California prepared this monthly status report, in support of contract F33657-01-D-2050. This report was authorized by Oklahoma City Air Logistics Center (OC-ALC/PSKAB), Tinker Air Force Base, Oklahoma, under BONE Delivery Order SD11.

SUMMARY

The primary purpose of this report is to provide documentation regarding the status of the Contractor Field Team (CFT) Wing Shear Bearing Maintenance Repair effort at Ellsworth AFB for the period 30 June 2004 through 31 July 2004. Four (4) aircraft were in work during July 2004 with two (2) aircraft completed. The completed aircraft were both Dyess jets (A/C's 85-0089 and 86-0109). Aircraft 86-0130 completed the Dorsal Longeron Repair and several members of the Shear Bearing Repair CFT have traveled to Dyess AFB and have begun the Dorsal Repair on Aircraft 85-0065. Currently, two (2) jets in work are 86-0134 (AMARC designated aircraft) and 86-0112 (a combined Shr Brg Repair / Blk E Mod jet). Due to concerns over completing the Shear Bearing Repair on the remaining 6 aircraft (All Dyess jets) in the time remaining per the SD11 Delivery Order, it was determined that to mitigate that schedule risk, the Boeing CFT would relocate there effort to Dyess. PCO approval for this move was received June 26. The last six aircraft requiring the Shear Bearing Repair will be worked between Aug 16th and Oct 14th with the last jet being inducted on 28 September 2004.

STATUS REPORT

The CFT Status Report email (Appendix A), covers the time period from initial SD11 delivery order award on 13 November 2003 to the planned actions of 30 July 2004. The CFT team has completed seventeen of twenty five aircraft scheduled under this delivery order. Appendix B presents the overall aircraft schedule with progress as of 30 June 2004. Appendix C shows a table of aircraft designated for Shear Bearing Repair with their scheduled and actual starts and finish dates. Block E mod-WSB repair teleconferences continue as to address any Boeing and/or Customer concerns and actions required to support the concurrent Block E mod-WSB repair CFT work and the scheduling of future aircraft designated for WSB and/or Block E installs. Appendix D presents man-hours and budget dollars expended on the SD11 delivery order through 29 June 2004.

Appendix A

CFT Status Report

Borden, Lance

From: Borden, Lance
Sent: Thursday, July 29, 2004 10:33 AM
To: Borden, Lance; EXT-Gilbert, Greg; 'ext-Steve.Tipton'; 'Ext-Harold Reed'; 'Ext-Larry.Urish'; 'Vann Jerry L Civ OC-ALC/PSKAB'; 'jimmie.hopkins@tinker.af.mil'; 'Bryan, Helen K'; Binder, Richard A; 'Ext-2Lt Kimmy Moss'; EXT-Evans, Gavin; EXT-Scott, Wilson A; Chan, Chi; 'Macasas Michael J Civ OC-ALC/MABBBA'; 'melonee.moses@dcma.mil'; 'ext-Gerry Wade (E-mail)'; 'Monroe Kay Civ OC-ALC/PSBP'; 'Barbara.Alexander@tinker.af.mil'; 'Jerry.Densmore@ellsworth.af.mil'; 'Poolaw Marti Civ OC-ALC/PSBMC'
Cc: Degnan, Glen C; Clark, William H; Carver, Lawrence A; Heath, Jonathan C; Andrew, Sharon M; Mize, Richard K; Decker, Kenneth V; Reiss, Sandra L; Steadman, Gail V; Romanelli, Jeffrey J; Fierro, Cindy L; Athearn, Stephen E; 'Morris, J. Craig'; Glover, Fred G; Zertuche, Jose M; Scott, Wilson A; Hartmann, Bernard H; Booth, Marcia A; Traugott, John A; Durham-III, George A; Helberg, Craig P; 'gregory.kerr@dyess.af.mil'; Lepo, Peter J; Foster, Dave; Nelson, Steve R; Boler, Michael; Werner, Jon J; 'Navarro, Catarino Q'; Marshall, Geri A; EXT-Gentile, George W; White, Mace A; Wentz, Jeremy; Ahmadi, Parichehr D; Weiser, Jacklynn M; Reed, Gregory T; 'cate.kauffman@wpafb.af.mil'; Kauffman, Cathy A; Posivak, Alex J; Bateman, Sean P
Subject: RE: Shear Bearing Repair CFT Status 07/29/04



SD11 Status
72904.pdf (206 KB).

Plan for 07-30-04

- * A/C 85-0065 Dorsal Repair: Complete Vert. Web Drilling; NDI holes; start cap drilling.
- * A/C 86-0134; Wing sweeps completed yesterday; install Kevlar Curtains; install panels.
- * A/C 86-0112: Panel removals in work.
- * Mesa: A/C 134 (rotatable pool ftgs-Ellsworth): In machining.

07-29-04

- * A/C 86-0065: Dorsal Repair: Vert Web drilling underway (~ 50% complete); Last of parts being fab'd, due in on 8/3.
- * A/C 86-0134: Down jacked; Hydro Lines installed and all disturbed systems checks completed; plan to do wing sweeps this morning.
- * A/C 86-0112: Worked off writeups & prep'd for combined Blk E / WSB Repair start later today after hangar lighting is serviced.
- * Mesa: A/C 134 (rotatable pool ftgs-Ellsworth): Arrived from Ellsworth yesterday; in receiving; go to machining.

Plan for 07-27-04

- * A/C 85-0065 Dorsal Repair: Removal of panels; inspect repair area; receive hardware.
- * A/C 86-0134; Build shims (if required); If no new shims required, begin Brg / Shr Ftg installs; If require get back shop to machine shim(s); panel refurb continues in work. Send Shr Ftgs to Mesa for modification.
- * A/C 86-0112: Working off writeups & prep for combined Blk E / WSB Repair start tomorrow.

07-26-04

- * A/C 86-0130: Dorsal Repair: **Completed late Friday 7/23.**
- * A/C 85-0065: Dorsal Repair: CFT at Dyess today. Prep for start of repair tomorrow.
- * A/C 86-0134: Brgs / Fittings removed; being measured today for shim requirements; panel refurb in work.
- * A/C 86-0112: Has arrived at Ellsworth. Needs two days to work off writeups & prep for combined Blk E / WSB Repair.

Plan for 07-23-04

- * A/C 86-0130 Dorsal Repair: Receive fastener shipment and install bracket. Should complete repair by COB today.
- * A/C 86-0134: Complete upper panel removals; complete Hydro line removals; jack A/C; start Brg / Shr Ftg removals.

07-22-04

- * A/C 86-0130 Dorsal Repair: had back shop fab another Systems support bracket with more flange width to allow for fastener edge distance requirements; Waiting for delivery 4 Hi Loks (2 part numbers) to complete job. ECD 07/26/04
- * A/C 86-0134; Put into work yesterday; lower panels removed; upper panels inwork; Kevlar Curtains removed; systems being stowed; start Hydro line removals; prep for jacking.

* Mesa: A/C 109 (rotatable pool ftgs-Ellsworth): Completed on 7/19; should have arrived at Ellsworth today or yesterday.

Plan for 07-16-04

- * A/C 86-0130 Dorsal Repair: Continue repair member installs; all fasteners should be 'inhouse'. Receive replacement splice plate from C13 this morning.
- * A/C 86-0132: Put into work today. (This jet will take priority over 0134 due to combo with Blk E. mod).
- * A/C 86-0134: Put into work today.
- * Mesa: A/C 109 (rotatable pool ftgs-Ellsworth): Complete inspection.

07-15-04

- * A/C 86-0130 Dorsal Repair: Finished NDI on all holes..No discrepancies; begin splice plate /doubler installs; receive fastener delivery. Replacement splice plate Heat Treat complete; doing passivation..should ship FEDEX overnight tonight to Ellsworth.
- * A/C 86-0132: Got word this morning (SMSgt Scarlett email) that A/C 0132 arrives at Ellsworth late today. (combined Blk E/WSB).
- * A/C 86-0134: Got word this morning (SMSgt Scarlett email) that A/C 0134 (AMARC designated jet) will also arrive at Ellsworth late today. (WSB only)
- * Mesa: A/C 109 (rotatable pool ftgs-Ellsworth): Complete drilling; move to inspection.

Plan for 07-13-04

- * A/C 86-0130 Dorsal Repair: Complete NDI hole inspections; begin nutplate / splice member installs; all but several fasteners should be 'inhouse' at Ellsworth by Thurs 7/15. Working substitutions / work arounds for those fasteners not available.
- * A/C 86-0132: Arrival today from Dyess; do prep work; begin WSB Repair tomorrow morning.
- * Mesa: A/C 109 (rotatable pool ftgs-Ellsworth): Continue drilling.

07-12-04

- * A/C 86-0130 Dorsal Repair: Finish drilling Vertical Web; all hole drilling will be completed; AF perform NDI tonight.
- * A/C 86-0132: Received word this morning (SMSgt Scarlett) that A/C 132 will not arrive at Ellsworth until tomorrow.
- * Mesa: A/C 109 (rotatable pool ftgs-Ellsworth): Machining sucessfully completed; in drilling process.

Plan for 07-09-04

- * A/C 86-0130 Dorsal Repair: Continue LH Vertical Web hole drilling. All parts and fasteners should be 'inhouse' at Ellsworth by Thurs 7/15.
- * A/C 86-0109: Continue panel installs. **A/C Complete on Sat. 7/10.**
- * Mesa: A/C 109 (rotatable pool ftgs-Ellsworth): In machining.

07-08-04

- * A/C 86-0130 Dorsal Repair: Finished drilling Fillers and Tee Bracket; continue Vertical Web drilling.
- * A/C 86-0109: Wing sweeps successfully completed last night; Kevlar Curtains install this morning; begin panel installs.
- * Mesa: A/C 109 (rotatable pool ftgs-Ellsworth): Sent to machining.

Plan for 07-07-04

- * A/C 86-0130 Dorsal Repair: Continue LH Vertical Web hole drilling.
- * A/C 86-0109: Complete Brg /Shr Ftg installs; reinstall hydro lines; restore systems. Remove inboard wing jacks; prep for wing sweeps.
- * Mesa: A/C 109 (rotatable pool ftgs-Ellsworth): Shr Ftgs should arrive at Mesa today.

07-06-04

- * A/C 86-0130 Dorsal Repair: Finished drilling the external doublers and the nutplates holes on LH side; start Vertical Web drilling.
- * A/C 86-0109: Worked Sat: completed jacking A/C, hydro line removals, Brg /Shr Ftg removals; measured ftgs-existing shims OK; today: begin Ftg /Brg installs; coord with Gerry Wade on hangar space to do wing sweeps (1/2 day required).
- * Mesa: A/C 109 (rotatable pool ftgs-Ellsworth): Sent to shipping on Sat. should have shipped then, if not, ship to Mesa today.

Plan for 07-02-04

- * A/C 86-0130 Dorsal Repair: Complete Outbd Cap drilling; Sat.: start Vertical Web / Shear Angle Ftg. hole drilling. Team will work Sat.
- * A/C 86-0109: Complete jacking A/C; finish hydro line removals; start Brg /Shr Ftg removals. Team will work Sat. on this jet.

07-01-04

- * A/C 86-0130 Dorsal Repair: Drilling: Inbd Cap/External Dblrs; Started yesterday on Outbd Cap drilling.
- * A/C 85-0089: **Shear Bearing Repair complete**; Removed from hangar; moved to Hangar 81 for Wing Pivot Ball Screw Actuator changeout. Air Force will install panels after changeout completed.
- * A/C 86-0109: Finish up removal of Upper panels; Kevlar Curtains removed; Inbd Jacks being moved to Dock 31 this morning; jack A/C; Hydro line removals inwork, should complete today.
- * Mesa: No activity..A/C 86-0109 Ftgs likely to ship Tues 7/6

Plan for 06-29-04

- * A/C 86-0130 Dorsal Repair: Continue drilling on Inbd Cap.
- * A/C 85-0089: Complete RH hydro line joint repair; install RH Kevlar Curtain; start RH panel installs.
- * A/C 86-0109: Continue lower panel removals; remove Kevlar Curtains.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Ftgs arrive at Ellsworth.

06-28-04

- * A/C 86-0130 Dorsal Repair: Drill fixtures set-up and trial drilling run successful over weekend; set-up tooling on A/C; removed existing fasteners on longeron upstanding (verticle) leg.
- * A/C 85-0089: Wing sweeps completed Fri.; Hydro complete LH; RH line has small leak at joint; A/F back shop to review/inspection recommend fix today; LH Kevlar Curtain installed.
- * A/C 86-0109: Upper panel removals are inwork; electrical and flt controls stowed.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Arrived at Dyess and being forwarded to Ellsworth.

Plan for 06-25-04

- * A/C 86-0130 Dorsal Repair: A/C on fuselage jacks Fri morning; start fastener removals in longeron; remove flt control bracket. (will work Sat.)
- * A/C 85-0089: Complete wing sweeps; install Kevlar Curtains; begin to panel up (will work Sat.).
- * A/C 86-0109: Continue panel removals are inwork; begin to stow systems.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Ship to Ellsworth (via Dyess per IWA).
- * Mesa: A/C 089 (rotatable pool ftgs-Ellsworth): Ship to Ellsworth.

06-24-04

- * A/C 86-0130: Aerofare is curing. **Shr Brg Repair is complete this morning. DCMA in Long Bch has OK'd the Solumina Tag (8am PDT) on Dorsal Long'n Repair. Begin Dorsal Repair work this morning**; LH, RH panels removed; prep drill/ream tools completed; fit check of repair doublers/slice plates completed.
- * A/C 85-0089: Latest news on "Power-Up" for Blk E is today; Service hydro then and prep for wing sweeps.
- * A/C 86-0109: Today is day one. Panel removals are inwork.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Ftgs are in DCMA for buyoff.
- * Mesa: A/C 089 (rotatable pool ftgs-Ellsworth): Ftgs are in DCMA for buyoff.

Plan for 06-22-04

- * A/C 86-0130: Continue panel installs. ECD for this jet is Wed afternoon 6/23.
- * A/C 85-0089: Work Panel fasteners when possible; "Power-Up" for Blk E tomorrow.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Modified Shim NDR changes ECD to 6/25 (not "critical path"item).
- * Mesa: A/C 089 (rotatable pool ftgs-Ellsworth): In Inspection; ECD: 06/25.

06-21-04

- * A/C 86-0130: Did not accomplish wing sweeps unatil this morning as A/C did not get back into hangar til Friday afternoon. Complete wing sweeps this morning; do Kevlar Curtain installs; begin Panel installs.
- * A/C 85-0089: Latest news on "Power-Up" for Blk E is now Wed.; service hydro then and do wing sweeps.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Modified Shim NDR changes ECD to 6/25 (not "critical path"item).
- * Mesa: A/C 089 (rotatable pool ftgs-Ellsworth): In Drilling.

Plan for 06-18-04

- * A/C 86-0130: Perform wing sweeps; install Kevlar Curtains; start panel installs.
- * A/C 85-0089: Work Panel fasteners refurb until power up scheduled for Monday 6/21; Service Hydro; do wing sweeps on 6/21.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Modified Shim NDR changes ECD to 6/23 (not "critical path"item).
- * Mesa: A/C 089 (rotatable pool ftgs-Ellsworth): In machining.

06-17-04

- * A/C 86-0130: Change in plan: Complete Wing Shr Brg before starting Dorsal Longeron Repair: Down Jacked; refuel today; prep for wing sweeps.
- * A/C 85-0089: Completed systems restoration; waiting for Blk E to power on to service Hydro; do wing sweeps.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Modified Shim NDR changes ECD to 6/23 (not "critical path"item).
- * Mesa: A/C 089 (rotatable pool ftgs-Ellsworth): In machining.

Plan for 06-15-04

- * A/C 86-0130: Dorsal Longeron Repair.
- * A/C 85-0089: Complete restoration of systems; service hydro; down jack; prep for wing sweeps.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Ship to Dyess (will then be forwarded from Dyess to Ellsworth).
- * Mesa: A/C 089 (rotatable pool ftgs-Ellsworth): In machining.

06-14-04

- * A/C 86-0130: Dorsal Longeron Repair.
- * A/C 85-0089: Completed Shr Ftg installs; Complete Brg installs today; install hydro lines; restore flt controls, electrical.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Modified Shim NDR changes ECD to 6/23 (not "critical path" item).
- * Mesa: A/C 130 (rotatable pool ftgs-Ellsworth): Completed and shipped to Ellsworth 06/10/04.
- * Mesa: A/C 089 (rotatable pool ftgs-Ellsworth): Receive at Mesa Fri 06/11/04.

Plan for 06-08-04

- * A/C 86-0130: Receive new shim; Complete all Brg /Shr Ftg installs; complete systems restoration; prep for wing sweeps but will not perform until after Dorsal Longeron Repair.
- * A/C 85-0089: Complete panel removals; prep for jacking.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Ship to Dyess (will then be forwarded from Dyess to Ellsworth).
- * Mesa: A/C 130 (rotatable pool ftgs-Ellsworth): Complete machining; go to drilling

06-07-04

- * A/C 86-0130: Complete RH Bearing and Shear Ftg install today; systems restoration in work today.
- * A/C 85-0089: All Lower Panels removed; Upper Panel removals in work; Kevlar Curtains removed; electrical down; flt controls stowed; working hydro line removals.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): More firm ECD: 6/7 (not "critical path" item).
- * Mesa: A/C 130 (rotatable pool ftgs-Ellsworth): Received Fri 6/4 and sent to machining.

Plan for 06-04-04

- * A/C 86-0130: Receive new shim; Complete all Brg /Shr Ftg installs; start systems restoration (A/C available for Dorsal Long'n repair).
- * A/C 85-0089: Continue panel removals; begin to stow systems.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): More firm ECD: 6/7 (not "critical path" item).
- * Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Should arrive Ellsworth today.
- * Mesa: A/C 084 (rotatable pool ftgs-Dyess): Should arrive Dyess today; prep for shipping to Long Beach.

06-03-04

- * A/C 86-0130: Redlines approved for no fuselage jacks on Tuesday Late; successfully removed Brg / Shr Ftg Wed.; measured for shim requirement-need a lower RH shim; begin LH Brg / Ftg install without fuselage jacks today.
- * A/C 85-0089: Move to Hangar 74; begin panel removals.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): More firm ECD: 6/7 (not "critical path" item).
- * Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Mod Ftgs bought off by Customer and shipped to Ellsworth.
- * Mesa: A/C 084 (rotatable pool ftgs-Dyess): Mod Ftgs bought off by Customer and shipped to Dyess.

06-02-04

- * A/C 86-0130: Measure Shr Ftgs and if no shim mod required, begin Brg / Shr Ftg installs.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Firm ECD: 6/4 (not "critical path" item).
- * Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Latest ECD: 6/2 (not "critical path" item).
- * Mesa: A/C 084 (rotatable pool ftgs-Dyess): Complete Inspection; go to Paint and ID.

06-01-04

- * A/C 86-0130: Get redlines approval for no fuselage jacks; begin Brg / Shr Ftg removals.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Firm ECD: 6/4 (not "critical path" item).
- * Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Latest ECD: 6/2 (not "critical path" item).
- * Mesa: A/C 084 (rotatable pool ftgs-Dyess): Complete drilling; go to Inspection.

Plan for 06-01-04

- * A/C 86-0130: Continue Brg / Shgr Ftg removals; measure ftgs for shim requirements.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): Firm ECD: 6/4 (not "critical path" item).
- * Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Latest ECD: 6/2 (not "critical path" item).
- * Mesa: A/C 084 (rotatable pool ftgs-Dyess): Complete drilling; go to Inspection.

05-28-04

* A/C 86-0130: Still pending QA/Engr'g/Safety buyoff on plan to perform bearing removals with wing jacks (no fuselage jacks). Located 2 Cement Barriers totaling 3K lbs for nose gear mooring. Test & Eval. Worksht (TEWS) being written/boughtoff today. Begin Brg removal one way or the other (off or on jacks).

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Complete NDR work.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Complete NDR work.

* Mesa: A/C 084 (rotatable pool ftgs-Dyess): Complete machining today; go to drilling.

Dyess DFT effort successfully completed. All future Mesa Dyess Ftgs will be forwarded from Dyess to Ellsworth.

Plan for 05-25-04

* A/C 86-0130: Prep for jacking; attempt Bearing removals with wing jacks (no fuselage jacks).

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Firm ECD 5/25.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Firm ECD 5/24.

* Mesa: A/C 079 (rotatable pool ftgs-Ellsworth): Completed; shipped to Ellsworth

* Mesa: A/C 084 (rotatable pool ftgs-Dyess): Should ship from Dyess to Mesa today.

05-24-04

* A/C 85-0079: Panel installs complete today. **A/C complete COB today.**

* A/C 86-0130: Several panels still to be removed; systems stowed; Kevlar Curtains removed.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR disposition buy-off today or tomorrow.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR disposition buy-off today or tomorrow.

* Mesa: A/C 121 (rotatable pool ftgs-Ellsworth): Fittings shipped Fri 5/21; arrive Ellsworth today.

* Mesa: A/C 079 (rotatable pool ftgs-Ellsworth): Complete drilling; go to Inspection.

Plan for 05-21-04

* A/C 85-0079: Continue Panel installs

* A/C 86-0130: Continue panel removals; remove hydro lines.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Firm ECD 5/25.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Firm ECD 5/24.

* Mesa: A/C 121 (rotatable pool ftgs-Ellsworth): Ship fittings to Ellsworth.

* Mesa: A/C 079 (rotatable pool ftgs-Ellsworth): Complete machining; go to drilling.

05-20-04

* A/C 85-0079: Wing sweeps complete today; Panel install tool repair completed today; start panel installs.

* A/C 86-0130: All lower panels removed; systems stowed; Kevlar Curtains removed; work removal of upper panels (coord with AC079 panel install process).

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR disposition buy-off today or tomorrow.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR disposition buy-off today or tomorrow.

* Mesa: A/C 121 (rotatable pool ftgs-Ellsworth): Fittings to buy-off this afternoon or tomorrow. ECD 05/21

* Mesa: A/C 079 (rotatable pool ftgs-Ellsworth): In machining

Plan for 05-18-04

* A/C 85-0079: Complete Shr ftg removals; measure for shim requirements; ship to Mesa; begin install of Votaw Shr Ftgs if shims "OK as is."

* A/C 86-0130: Continue panel removals; start to stow systems.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Should have ECD by today.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Should have ECD by today.

* Mesa: A/C 121 (rotatable pool ftgs-Ellsworth): Fittings complete drilling and go to Inspection. ECD 05/21 (conservative..should beat this date.)

05-17-04

* A/C 85-0079: Fuselage is jacked; Brgs are removed; begin Shr Ftg removals.

* A/C 86-0130: Did not bring A/C into hangar over weekend. Should be inducted sometime today; start panel removals

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR disposition inwork (tentative-meetings daily at Mesa to get sched visibility).

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR disposition inwork (tentative-meetings daily at Mesa to get sched visibility).

* Mesa: A/C 100 (rotatable pool ftgs-Dyess): Completed mod, bought off Fri. and shipped for Sat pick-up at Dyess; Jeremy Wentz picked-up fittings at FEDEX and installs began on Sat 5/15.

* Mesa: A/C 121 (rotatable pool ftgs-Ellsworth): Fittings in drilling.

* Mesa: Votaw produced Spare Set of Prod Ftgs: Completed and bought off on Fri.; shipped to Ellsworth.

Plan for 05-14-04

* A/C 85-0079: Continue systems stow; jack A/C; Prep for START Treaty inspection.

* A/C 86-0130: Bring this A/C into the hangar early and start WSB Repair.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Complete LH NDR disposition shim install (tentative); go to Paint and ID; Post for Customer buy-off; Ship to Ellsworth (recipricate for last Ellsworth set sent to Dyess). ECD: still no commitment from Mesa.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Post for Customer buy-off; Ship to Dyess.

* Mesa: A/C 100 (rotatable pool ftgs-Dyess): Completed drilling LH side; go to Inspection; ECD 5/18 or 19th.

* Mesa: A/C 121 (rotatable pool ftgs-Ellsworth): Fittings complete machining. ECD 05/21

* Mesa: Spare Set of Prod Ftgs (built at Votaw): NDR tag signed-off; disposition in work; go to Customer buy-off; ship to Ellsworth.

05-13-04

* A/C 86-0121: Finishing upper panel refurb & closeout strips; aerofare; move out of hangar.

* A/C 85-0079: Continue upper panel removals; stow systems; removed Kevlar curtains.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR disposition should complete today (tentative-meetings daily at Mesa to get sched visibility).

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Post for Customer buy-off; Ship to Dyess as they are needed there before Ellsworth.

* Mesa: A/C 100 (rotatable pool ftgs-Dyess): Completed drilling RH side.

* Mesa: A/C 121 (rotatable pool ftgs-Ellsworth): Fittings in machining.

* Mesa: Votaw produced Spare Set of Prod Ftgs: Machined and Drilled; in Inspection; go to Paint and ID: NDR tag for stamping ID info on part is in work.

Plan for 05-11-04

* A/C 85-0079: Begin panel removals.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Post for Customer buy-off; Ship to Dyess.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR disposition developed; put dispo in work; Mod ECD: 5/12 (estimate)

* Mesa: A/C 100 (rotatable pool ftgs-Dyess): Complete machining late today or tomorrow morning.

05-10-04

* A/C 86-0121: Finish panel & closeout strips; aeofare; **Complete A/C today**

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR disposition should complete today (meeting at Mesa to get sched visibility).

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR disposition should complete today (meeting at Mesa to get sched visibility).

* Mesa: A/C 100 (rotatable pool ftgs-Dyess): Delayed start (meeting at Mesa to get sched visibility). Do know they are in machining.

Plan for 05-07-04

* A/C 86-0121: Systems checkout; Do wing sweeps; begin panel reinstalls. ECD: 5/10

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Post for Customer buy-off; Ship to Dyess.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR disposition developed; put dispo in work; Mod ECD: 5/10 (estimate)

* Mesa: A/C 100 (rotatable pool ftgs-Dyess): Should complete machining; go to drilling.

05-06-04

* A/C 86-0121: Completed Brg / Shr Ftg installs; completed systems restoration; down jack today.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR disposition complete: in Paint & ID; ECD: 5/5

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR disposition developed; put dispo in work; Mod ECD: 5/5 (estimate)

* Mesa: A/C 100 (rotatable pool ftgs-Dyess): Should be in machining.

Plan for 05-04-04

* A/C 86-0121: Measure for shim requirements. If okay as is, start Brg / Shr Ftg installs.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Post for Customer buy-off; Ship to Dyess tomorrow.

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR disposition developed; put dispo in work; Mod ECD: 5/5 (estimate)

* Mesa: A/C 061 (rotatable pool ftgs-Ellsworth): ship to Ellsworth today.

* Mesa: A/C 100 (rotatable pool ftgs-Dyess): Should be in machining.

05-03-04

* A/C 85-0061: A/C Complete COB today.

* A/C 86-0121: Complete Brg / Shr Ftg removals today.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR disposition complete: in Paint & ID; ECD: 5/5

* Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR dispo in work; Mod ECD: 5/5 (estimate)

* Mesa: A/C 061 (rotatable pool ftgs-Ellsworth): Post for Customer buy-off.

* Mesa: A/C 100 (rotatable pool ftgs-Dyess): Trying to varify that the ftgs were received by Mesa.

Plan for 04-30-04

- * A/C 85-0061: Continue panel installs. ECD: 5/3 COB.
- * A/C 86-0121: Remove Kevlar Curtains; start Brg / Shr Ftg removals.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR Shim disposition inwork; Mod ECD 5/3 (estimate).
- * Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): LH NDR disposition developed; put dispo in work; Mod ECD: 5/5 (estimate)
- * Mesa: A/C 061 (rotatable pool ftgs-Ellsworth): Complete Inspection; go to Paint and ID; Mod ECD: 5/4.
- * Mesa: A/C 100 (rotatable pool ftgs-Dyess): In machining.

04-29-04

- * A/C 85-0061: Down jacked yesterday morning (1 day late do to AGE shop priorities); performed wing sweeps this morning; begin Kevlar Curtain and panel installs.
- * A/C 86-0121: Lower Panels removal complete Tuesday; upper panels complete today; systems stow complete; A/C is jacked.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR Shim stock received; disposition inwork. RH in Paint & ID.
- * Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Inspection found a discrepancy with mod flange angle; LH NDR required. RH in Paint & ID.
- * Mesa: A/C 061 (rotatable pool ftgs-Ellsworth): Complete Drilling; go to Inspection; ECD: 5/4.
- * Mesa: A/C 100 (rotatable pool ftgs-Dyess): Receive Shr Ftgs from Dyess; send to machining.

Plan for 04-27-04

- * A/C 85-0061: Power on today; prep for wing sweeps.
- * A/C 86-0121: Continue panel removal; start systems stow.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR Shim disposition inwork; Mod Ftgs ECD 4/28.
- * Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Post for Customer buy-off; Ship Ellsworth late today or tomorrow.
- * Mesa: A/C 061 (rotatable pool ftgs-Ellsworth): Complete Drilling; go to Inspection; ECD: 4/30.

04-26-04

- * A/C 85-0061: Complete install of LH Shr Ftg / Brg with new shim; systems wer being restored overweekend; down jack today.
- * A/C 85-0087: Did complete AC87 Saturday and rolled out of hangar.
- * A/C 86-0121: Prep'd A/C for startup of Shr Brg Repair; in hangar-day-1 is Monday 4/26. Panels being removed.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR Shim disposition inwork; Mod Ftgs ECD 4/28.
- * Mesa: A/C 087 (rotatable pool ftgs-Ellsworth): Inspection complete; in Paint & ID; ECD4/27.
- * Mesa: A/C 061 (rotatable pool ftgs-Ellsworth): Machining complete; in Drilling; ECD 4/30.

Plan for 04-23-04

- * A/C 85-0061: Finish shim machining; install Shr Ftg / Brg; start systems restoration.
- * A/C 85-0087: Complete aircraft panel installs late afternoon; aerofare closeout strips Sat. morning; **A/C complete** Sat. 4/24.
- * A/C 86-0121: Prep A/C for startup of Shr Brg Repair on Monday 4/26.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): LH NDR Shims in-work; Mod Ftgs ECD 4/28. Dyess has a spare set of Shr Ftgs (Votaw mfg'd) to use on A/C 86-0119.

04-22-04

- * A/C 85-0061: Shim mod. required and being machined; other side Shr Ftg / Brg installed
- * A/C 85-0087: Complete Lower Panel installs; upper panel installs in work.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): RH Ftg ready for Customer buy-off; will ship RH to Dyess; LH NDR Shim material found; Mod Ftgs ECD 4/28.

Plan for 04-20-04

- * A/C 85-0061: Finish systems stow; remove Kevlar Curtains; begin Brg and Shr Ftg removals.
- * A/C 85-0087: Continue systems restoration; hydro lines reinstall; bleed sys; prep for wing sweeps.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): RH Ftg in inspection; LH Ftg drilled; LH NDR Shims in-work; Mod Ftgs ECD 4/21.

04-19-04

- * A/C 85-0061: Complete removal of Brgs and Shr Ftgs today; measure Ftgs for Shim requirements.
- * A/C 85-0087: Shims good as is; installed Brgs and Shr Ftgs; begin systems restoration.
- * Mesa: A/C 069 (rotatable pool ftgs-Ellsworth): Arrived Ellsworth.
- * Mesa: A/C 119 (rotatable pool ftgs-Dyess): RH Ftg in drilling; LH Ftg flange thickness machined under tolerance by 0.026.

Plan for 04-16-04

- * A/C 85-0061: Finish systems stow; remove Kevlar Curtains; begin Brg and Shr Ftg removals.
- * A/C 85-0087: Continue Brg and Shr Ftg removals; measure Shr Ftgs for shimming requirements.
- * Mesa: A/C 069 (rotatable pool ftgs-Ellsworth): Mod Ftgs should be at Ellsworth.

* Mesa: A/C 119 (rotatable pool ftgs-Dyess): RH Ftg in inspection; LH Ftg drilled; LH NDR Shims in-work; Mod Ftgs ECD 4/19.

04-15-04

* A/C 85-0061: Panel removals finish today; began stowing systems; drain hydro; jack A/C tonight.
* A/C 85-0087: Jack A/C this morning; finish systems stow; Kevlar Curtains removed; begin Brg and Shr Ftg removals.
* Mesa: A/C 069 (rotatable pool ftgs-Ellsworth): Ftgs completed; Customer bought-off and sent to Ellsworth yesterday.
* Mesa: A/C 119 (rotatable pool ftgs-Dyess): RH Ftg in drilling; LH Ftg flange thickness machined under tolerance by 0.026. Stress analysis shows OK. Fit-up with Wear strips will require custom shims to maintain proper Wear Strip/Ftg Flange stack-up thickness. MESA to Fab under the NDR (Solumina Tag). Mod Shr Ftgs ECD 4/19.

Plan for 04-13-04

* A/C 85-0061: Start repair on Wed morning 4/14.
* A/C 85-0087: Continue panel removals; start to stow systems.
* Mesa: A/C 125 (rotatable pool ftgs-Ellsworth): Shr Ftgs ship to Ellsworth.
* Mesa: A/C 069 (rotatable pool ftgs-Ellsworth): Ftgs in inspection; ECD 4/14.
* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Ftgs in inspection; ECD 4/16.

04-12-04

* A/C 85-0087: Start depanelling today.
* A/C 86-0125: Completed last Tue 4/6.
* A/C 85-0069: Completed last Sat 4/10.
* Mesa: A/C 125 (rotatable pool ftgs-Ellsworth): Customer buy-off today.
* Mesa: A/C 069 (rotatable pool ftgs-Ellsworth): Ftgs in clean and paint; ECD 4/14.
* Mesa: A/C 119 (rotatable pool ftgs-Dyess): Ftgs in drilling; ECD 4/16.

Plan for 04-02-04

* A/C 86-0125: Work panel installs.
* A/C 85-0069: Complete Brg / Shr Ftg LH installs; begin systems restoration.
* Mesa: A/C 125 (rotatable pool ftgs-Ellsworth): Shr Ftgs complete machining and go into drilling.

04-01-04

* A/C 86-0125: Completed systems restoration; hydro service; wing sweeps this morning; begin repanel; Kevlar Curtain installs.
* A/C 85-0069: Complete Brg / Shr Ftg RH installs; receive LH shims from backshop.
* Mesa: A/C 125 (rotatable pool ftgs-Ellsworth): Shr Ftgs in machining.

Plan for 03-30-04

* A/C 86-0125: No new shims required; begin Shr Ftg / Brg installs; start systems restoration.
* A/C 85-0069: Brg / Shr Ftg removal; measure shims.; prepare to ship ftgs to Mesa.
* Mesa: A/C 125 (rotatable pool ftgs-Ellsworth): Shr Ftgs should go to machining today (Tue).

03-29-04

* A/C 86-0125: Brgs & Ftgs installed; down jack today; start systems restoration
* A/C 85-0069: Panel Press returned on Thurs 3/26; Upper panels removed by Fri 3/27; jacked A/C on Sat. and continued stowing systems. Remove hydro lines today.
* Mesa: A/C 125 (rotatable pool ftgs-Ellsworth): Should have fittings at Mesa (waiting to hear from Mesa on their status).

Plan for 03-26-04

* A/C 86-0125: No new shims required; begin Shr Ftg / Brg installs; start systems restoration.
* A/C 85-0069: Stow what systems can be done with Upper Panels still installed. Press AF for return of Panel removal Press Tool.
* Mesa: A/C 125 (rotatable pool ftgs-Ellsworth): Shr Ftgs should arrive at Mesa today (Fri.).

03-25-04

* A/C 86-0125: Jacked A/C yesterday morning; finish Brgs & Ftgs removal and measure; can use 3 of 4 same shims and one shim off previous A/C.
* A/C 85-0069: Lower Panels removed. Upper panels delayed due to Panel Removal Press Tool being taken by AF for inspection/calibration. Hope to have it back tomorrow or Mon.; team moving over to work A/C 125 heavy.
* Mesa: A/C 065 (rotatable pool ftgs-Dyess): Customer bought-off and shipped to Dyess: 3/23; received at Dyess 3/24.
* Mesa: A/C 125 (rotatable pool ftgs-Ellsworth): Ship Shr Ftgs to Mesa today.

Plan for 03-23-04

* A/C 86-0125: Begin systems stow; deservice hydro; remove hydro lines.

- * A/C 85-0069: Tentatively fly into Ellsworth today; begin WSD/Blk E on Wed.
- * Mesa: A/C 065 (rotatable pool ftgs-Dyess): In clean & paint today; post for customer buyoff tomorrow.

03-22-04

- * A/C 86-0125: Began depaneling today
- * A/C 85-0069: Returned to Dyess after birdstrike on Nose Radome Thurs..R&R was required.
- * Mesa: A/C 136 (rotatable pool ftgs-Ellsworth): Shr Ftgs arrived back at Ellsworth Fri 3/19.
- * Mesa: A/C 065 (rotatable pool ftgs-Dyess): completed machining Fri; complete drilling today.

Plan for 03-19-04

- * A/C 85-0069: Begin WSB Repair; start panel removals.
- * Mesa: A/C 065 (rotatable pool ftgs-Dyess): In machining.

03-18-04

- * A/C 86-0136: Complete Panel Installs today; rolled out of hangar this morning; **A/C Complete.**
- * A/C 85-0069: Due to arrive today and go into prep for WSB repair.
- * Mesa: A/C 136 (rotatable pool ftgs-Ellsworth): Completed mod and Ftgs were shipped back to Ellsworth yesterday 3/17/04.
- * Mesa: A/C 065 (rotatable pool ftgs-Dyess): Should have arrived and go to machining.

Plan for 03-16-04

- * A/C 86-0136: Continue panel installs; WSB ECD: COB 03/18/04.
- * A/C 85-0069: Tentative next A/C for WSB Repair/Blk E Mod to arrive on the 18th and begin prep for input on the 19th. Wear Strip restock from Tinker is becoming critical. Harold Reed working issue.
- * Mesa: A/C 136 (rotatable pool ftgs-Ellsworth): Ftgs in drilling today; complete and move to inspection tomorrow.
- * Mesa: A/C 065 (rotatable pool ftgs-Dyess): Should arrive Mesa Tue 3/16.

03-15-04

- * A/C 86-0136: Perform wing sweeps this morning; begin panel reinstalls & install Kevlar Curtains.
- * Mesa: A/C 136 (rotatable pool ftgs-Ellsworth): Complete machining; move to drilling; ECD: 03/19/04.

Plan for 03-12-04

- * A/C 86-0136: Continue systems restoration; prep for hydro servicing; prep for wing sweeps.
- * Mesa: A/C 136 (rotatable pool ftgs-Ellsworth): Ftgs in machining today.

03-11-04

- * A/C 86-0136: New shim completed yesterday; completed Brg/Ftg installs; start systems restorationdejack today
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess):Arrived Dyess Tue
- * Mesa: A/C 136 (rotatable pool ftgs-Ellsworth): Ftgs arrived at Mesa yesterday (Wed)

Plan for 03-09-04

- * A/C 86-0136: If no shims required, install Brgs / Shr Ftgs.
- * Mesa: A/C 136 (rotatable pool ftgs-Ellsworth): Ftgs should arrive Mesa today (Tues).

03-08-04

- * A/C 86-0136: Completed Brg/Ftg removals; measuring fittings and prep for shipment to Mesa this afternoon.
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess):Arrive Dyess today or tomorrow

Plan for 03-05-04

- * A/C 86-0136: Complete Brg/Ftg removals; measure fittings and prep for shipment to Mesa.
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess): Post for Customer buy-off; try to get signatures and ship Fri. afternoon..otherwise out of Mesa on Monday.

03-04-04

- * A/C 86-0136: No progress the last 2 days due to base closure and then snow removal operations..Back on the jet today; complete Kevlar Curtain removals; start Brg/ Shgr Ftg removals.
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess):Ftgs in Inspection today

Plan for 03-02-04

- * A/C 86-0136: Should have roads cleared and base open; Continue stow systems;start Brg/Ftg removal.
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess): Ftgs in drilling; ECD for mod is 03/10 (should beat that date).

03-01-04

- * A/C 86-0136: No progress today..Base is closed due to snow storm. Jacked A/C late on Fri 2/27
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess):Machining complete

Plan for 02-27-04

- * A/C 86-0136: Continue panel removals.
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess): Ftgs in machining.

02-26-04

- * A/C 86-0136: A/C arrived from Dyess yesterday afternoon; completed prep and put in hangar; begin panel removals today.
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess): Send to machining

Plan for 02-24-04

- * A/C 86-0136: Fly A/C into Ellsworth; arrive about noon; Prep for WSB; begin repair Wed. morning.
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess): Shr Ftgs arrive at Mesa.

02-23-04

- * A/C 85-0068: **A/C completed** Saturday morning 2/21/04.
- * A/C 86-0136: Complete reinstall of 2 windows by COB today at Dyess.
- * Mesa: A/C 120 (rotatable pool ftgs-Dyess): Send from Dyess to Mesa this afternoon.

Plan for 02-20-04

- * A/C 85-0068: Complete panel installs; aerofare closeout strips; A/C Complete at COB (tentative).
- * Mesa: A/C 068 (rotatable pool ftgs-Ellsworth): Completed Paint and ID; post for DCMA buyoff ; ship to Ellsworth.

02-19-04

- * A/C 85-0068: Completed wing sweeps on Tues; started Kevlar Curtain installs; installing panels today.
- * Mesa: A/C 068 (rotatable pool ftgs-Ellsworth): Fittings in inspection.

Plan for 02-17-04

- * A/C 85-0068: Complete prep for wing sweeps; do wing sweeps. Repair ECD: COB 12/20/04
- * Mesa: A/C 068 (rotatable pool ftgs-Ellsworth): Ftgs to Drilling today. ECD: 12/20/04

02-16-04

- * A/C 85-0068: Complete restoring systems and checkouts; completed down jack.
- * Mesa: A/C 068 (rotatable pool ftgs-Ellsworth): Machining completes today.

Plan for 02-13-04

- * A/C 85-0074: Complete Panel installs and Aerofare cover strips; **A/C complete.**
- * A/C 85-0068: Complete Brg and Shear Fitting install RH; prep for down jack; start restoring systems.
- * Mesa: A/C 068 (rotatable pool ftgs-Ellsworth): Ftgs should arrive Mesa yesterday; go to machining today.

02-12-04

- * A/C 85-0074: Wing sweep successful yesterday morning; began curtain installs; began panel installs.
- * A/C 85-0068: Brgs out Shim for upper RH completed by back shop late yesterday; LH Brg / Shr Ftg installed yesterday; will do RH install tomorrow after finish of A/C 074. Fittings shipped to Mesa.
- * Mesa: A/C 074 (rotatable pool ftgs-Ellsworth): All processes coompleted shipped 02/11 to Ellsworth.
- * Mesa: A/C 103 (rotatable pool ftgs-Dyess): All processes coompleted shipped 02/11 to Dyess.

Plan for 02-10-04

- * A/C 85-0074: Install Kevlar Curtains; begin panel installs.
- * A/C 85-0068: Complete Brg and Shear Fitting removals; measure Shr Ftgs and determine shim requirements; ship Ftgs to Mesa for mod; prep rotatable pool Shr Ftgs for install.
- * Mesa: A/C 074 (rotatable pool ftgs-Ellsworth): complete drilling tomorrow; move to inspection tomorrow ; ECD 2/13/04.
- * Mesa: A/C 103 (rotatable pool ftgs-Dyess): Ftgs complete drilling; move to inspection; ECD 2/12/04.

02-09-04

- * A/C 85-0074: Service hydro this morning and perform wing sweeps.
- * A/C 85-0068: Completed systems stow; jacked A/C over the weekend; began Brg removals.
- * Mesa: A/C 074 (rotatable pool ftgs-Ellsworth): Machining complete; begin drilling following A/C 103.
- * Mesa: A/C 103 (rotatable pool ftgs-Dyess): Ftgs completed machining; being drilled today.

Plan for 02-06-04

- * A/C 85-0074: Continue systems reinstalled; prep for wing sweeps.
- * A/C 85-0068: Continue panel removals; start systems stow.
- * Mesa: A/C 074 (rotatable pool ftgs-Ellsworth): Ftgs in machining; ECD 2/16/04.

* Mesa: A/C 103 (rotatable pool ftgs-Dyess): Ftgs complete machining late today; move to drilling Mon.; ECD 2/13/04.

02-05-04

* A/C 86-0102: COC today.

* A/C 85-0074: Dejaired yesterday; begin systems reinstall.

* A/C 85-0068: Flew into Ellsworth from Edwards-arrived Wed. 13:00; Prep'd and put in hangar; start panel removals.

* Mesa: A/C 074 (rotatable pool ftgs-Ellsworth): Ftgs start machining today; ECD 2/16/04.

* Mesa: A/C 103 (rotatable pool ftgs-Dyess): Ftgs started machining ahead of A/C 074; ECD 2/13/04.

02/03.

* A/C 85-0074: Complete Bearings / Shr Ftgs installs; begin restoration of systems; prep for deairing.

* A/C 85-0068: Fly into Ellsworth from Edwards late Tues. or Weds. morning.

* Mesa: A/C 102 (rotatable pool ftgs-Ellsworth): Post for buyoff; crate and ship today to Ellsworth.

* Mesa: A/C 074 (rotatable pool ftgs-Ellsworth): Ftgs should be in machining.

* Mesa: A/C 103 (rotatable pool ftgs-Dyess): Ftgs should be at Mesa today; move to machine shop

02-02-04

* A/C 86-0102: Complete panel aerofare cure today; **A/C complete COB** today.

* A/C 85-0074: Begin Bearings / Shr Ftgs installs.

* Mesa: A/C 102 (rotatable pool ftgs-Ellsworth): Complete paint and ID today.

* Mesa: A/C 074 (rotatable pool ftgs-Ellsworth): Ftgs should be at Mesa today; move to machine shop.

Plan for 01-30-04

* A/C 86-0102: Continue to install upper and lower panels; will work Sat. to complete aircraft repair by COB Mon. 02/02/04.

* A/C 85-0074: Determine if shims required..if not, begin Bearing / Shr Fitting installs.

* Mesa: A/C 102 (rotatable pool ftgs-Ellsworth): Complete drilling by Monday; go to Inspection; ECD:02/04/04.

* Mesa: A/C 074 (rotatable pool ftgs-Ellsworth): Ftgs should arrive at Mesa today or Monday at the latest.

01-29-04

* A/C 86-0102: Wing Sweeps complete this morning; begin Kevlar Curtain and panel reinstalls.

A/C 85-0074: Bearings / Shr Ftgs removed and being measured for shim requirement; package and ship to Mesa.

* Mesa: A/C 102 (rotatable pool ftgs-Ellsworth): In drilling

Plan for 01-27-04

* A/C 86-0102: Complete hydro bleed; prep for wing sweeps.

* A/C 85-0074: Complete fuselage and wing jacking. may carryover to Wed.; begin bearing Shr Fitting removal.

* Mesa: A/C 102 (rotatable pool ftgs-Ellsworth): Complete machining; in drilling (estimated as I have not got word from Mesa this morning -Mon.-on their progress).

01-26-04

* A/C 86-0102: No new shims required; completed Shr Fitting / Bearing; panel installs over the weekend; began system restoration; down jack today.

* A/C 85-0074: Continued stow systems; remove hydro lines; finish removing curtains; prep for jacking.

* Mesa: A/C 102 (rotatable pool ftgs-Ellsworth): In machining (estimated as I have not got word from Mesa this morning on their progress).

Plan for 01-23-04

* A/C 86-0102: Complete Brg and Mod Shr Ftg installs..Use original Shims; begin to restore systems.

* A/C 85-0074: Complete panel removals; stow systems; bring down hydro; remove curtains; prep for jacking.

* Mesa: A/C 102 (rotatable pool ftgs-Ellsworth): Ftgs should arrive at Mesa today

01-22-04

* A/C 85-0074: Aircraft in hangar but a large fuel leak has been identified (determined to be pre-existing condition). Safety issues have been addressed and direction from AF is OK to proceed with WSB Repair; began panel removals.

* A/C 86-0102: All systems stowed; hydro lines removed and A/C jacked Tues afternoon; Bearings and Shr Ftgs removed; Fittings measured; will use as display items for General Jumper's visit today; ship Ftgs to Mesa today.

* Mesa: A/C 073 (rotatable pool ftgs-Ellsworth): Modified Shr Fittings arrived at Ellsworth today.

Plan for 01-20-04

* A/C 86-0102: Continue panel removals; start systems stow.

* Mesa: A/C 073 (rotatable pool ftgs-Ellsworth): Complete drilling; go to inspection. ECD: 01/22/04

01-19-04

* A/C 85-0073: **A/C Completed On Saturday 01/17/04.** COC signoff planned for tomorrow.

- * A/C 86-0102: Prepared aircraft for WSB on Sat. and pulled in hangar; repair starts today.
- * Mesa: A/C 073 (rotatable pool ftgs-Ellsworth): In drilling.

Plan for 01-16-04

- * A/C 85-0073: Continue panel installs (A/C complete ECD Sat morning -- 1/17/04).
- * A/C 86-0102: Plan: prep to go into second 'all in hangar' for WSB Repair only -- start panel removals.
- * Mesa: A/C 073 (rotatable pool ftgs-Ellsworth): Complete machining; go to drilling.

01-15-04

- * A/C 85-0073: Working nutplates. Completed wing sweeps yesterday; install Kevlar Curtains; begin upper spring panel installs.
- * A/C 86-0102: Planned to arrive today from FOB -- If it shows up--start prep for WSB repair today.
- * Mesa: A/C 122 (rotatable pool ftgs-Dyess): Completed and shipped to Dyess 01/13 COB.
- * Mesa: A/C 099 (rotatable pool ftgs-Ellsworth): Completed and shipped to Dyess 01/13 COB.
- * Mesa: A/C 073 (rotatable pool ftgs-Ellsworth): Arrived Mesa; gone to machine shop.

Plan for 01-13-04

- * A/C 85-0073: Finish nutplate/panel refurb; power up; service Hydro system; disturbed sys chk; start wing sweeps. (A/C complete ECD is late Friday or Sat morning (1/17/04).
- * A/C 86-0102: Being prepared to go into second 'all in hangar' for WSB Repair only -- start Wed.
- * Mesa: A/C 122 (rotatable pool ftgs-Dyess): Post for Customer buy-off; Ship to Dyess.
- * Mesa: A/C 099 (rotatable pool ftgs-Ellsworth): Complete inspection and paint today; Customer buy-off tomorrow. ECD:1/14/04.

01-12-04

- * A/C 85-0073: Working nutplates. Plan wing sweeps for late Tues or Wed morning
- * Mesa: A/C 099 (rotatable pool ftgs-Ellsworth): Complete drilling today; go to inspection and paint.
- * Mesa: A/C 122 (rotatable pool ftgs-Dyess): Complete inspection and paint today.

Plan for 01-09-04

- * A/C 85-0073: Complete Bearing installs; begin systems restoration; dejack.
- * Mesa: A/C 099 (rotatable pool ftgs-Ellsworth): Complete machining; go to drilling. ECD:1/14/04..This is acceptable to current repair plan.
- * Mesa: A/C 122 (rotatable pool ftgs-Dyess): Complete drilling and go to inspection. ECD:1/13/04..This is acceptable to current repair plan.

01-08-04

- * A/C 85-0073: Ship Shr Ftgs to Mesa today; modified Shr Ftgs installed-no new shims required; working Bearing installs.
- * Mesa: A/C 099 (rotatable pool ftgs-Ellsworth): Received status report from Mesa: Dyess fittings went into work ahead of Ellsworth set. Complete machining today; go to drilling.
- * Mesa: A/C 122 (rotatable pool ftgs-Dyess): Machining completed yesterday; went to drilling

Plan for 01-06-04

- * A/C 85-0073: Complete Bearing and Shr Ftg removals; measure Shr Ftgs and box for shipment to Mesa.
- * Mesa: A/C 099 (rotatable pool ftgs-Ellsworth): Complete machining; go to drillings.
- * Mesa: A/C 122 (rotatable pool ftgs-Dyess): Machining in work.

01-05-04

- * A/C 85-0073: Went into work on 12/29. Complete jacking today; begin Bearing and Shr Ftg removals.
- * A/C 86-0099: On 12/19, wing sweeps were performed. Due to an 'out of rig' condition, not as a result of the WSB repair, the wings swept beyond the 67.5 deg. limit by a couple of degrees (estimated). Inspected WSB repair area for damage and found none. Some damage to other areas was found.(Refer to Wilson Scott for details). Completed the sweeps and systems restoration. All panels reinstalled. WSB repair completed and removed from hangar 12/29. COC signoff today.
- * Mesa: A/C 099 (rotatable pool ftgs-Ellsworth): Should be into machining process (Estimated-no status yet this morning).
- * Mesa: A/C 122 (rotatable pool ftgs-Dyess): Should be starting machining process (Estimated-no status yet this morning).

Plan for 12-19-03

- * A/C 86-0099: Complete down jack; Begin systems restoration.
- * Mesa: A/C 099 (rotatable pool ftgs-Ellsworth): Go to machine shop (no work over Holidays)
- * Mesa: A/C 122 (rotatable pool ftgs-Dyess): Receive fittings from Dyess (no work over Holidays)

12-18-03

- * A/C 86-0099: Brg / Shr Ftg measurements within tolerance for using existing shims; installed new Brgs / rotatable Shr Ftgs

yesterday; waiting for AGE shop support to down jack today.

* Mesa: A/C 083 (rotatable pool ftgs-Ellsworth): shipped to Ellsworth 12/16..they arrived there yesterday.

* Mesa: A/C 099 (rotatable pool ftgs-Ellsworth): Receive Shear Ftgs from Ellsworth today.

Plan for 12-16-03

* A/C 86-0099: Complete Brg / Shr Ftg removals; measure Shr Ftgs and prep for shipment to Mesa; ship either today or tomorrow 12/17.

* Mesa: A/C 083 (rotatable pool ftgs-Ellsworth): go to inspection; then to Paint/ID;ECD for overall process: 12/17.

12-15-03

* A/C 86-0099:Kevlar Curtains removed; jack aircraft today; start Brg / Shr Ftg removals.

* Mesa: A/C 059 (rotatable pool ftgs-Dyess): Mod'd Ftgs arrived at Dyess.

* Mesa: A/C 066 (rotatable pool ftgs-Ellsworth): Mod'd Ftgs arrived at Ellsworth.

* Mesa: A/C 083 (rotatable pool ftgs-Ellsworth): Complete drilling today.

Plan for 12-12-03

* A/C 86-0099: Complete panel removals; begin to stow flt cntrls;electrical; start hydro line removal.

* Mesa: A/C 059 (rotatable pool ftgs-Dyess): ECD for overall process will slip to the right several days..probably 12/15.

* Mesa: A/C 066 (rotatable pool ftgs-Ellsworth): Paint/ID; get DCMA buy-off ; ship to Ellsworth.

* Mesa: A/C 083 (rotatable pool ftgs-Ellsworth): Continue Drilling holes; ECD for overall process: 12/17.

12-11-03

* A/C 86-0099: A/C arrived from Dyess yesterday; started panel removals

* Mesa: A/C 059 (rotatable pool ftgs-Dyess): NDRM signed off on RH fitting Tuesday afternoon; goal is to have this set complete by 12/12 but probably more likely 12/15. LH fitting will complete 12/11.

* Mesa: A/C 066 (rotatable pool ftgs-Ellsworth): Finish drilling yesterday; In inspection; ECD for overall process: 12/12.

* Mesa: A/C 083 (rotatable pool ftgs-Ellsworth): Complete machining today; go to drilling process.

Plan for 12-09-03

* A/C 86-0121 (tentative): Begin panel removals.

* Mesa: A/C 059 (rotatable pool ftgs): Disposition dye pen inspect. ECD for overall process will slip to the right several days.

* Mesa: A/C 066 (rotatable pool ftgs): Finish Machining today; Go to Drilling process; ECD for overall process: 12/12.

* Mesa: A/C 083 (rotatable pool ftgs): Begin machining after A/C 066 fittings.

12-08-03

* A/C 85-0083: Final panel installs and aerofare today. **A/C complete COB today.**

* Mesa: A/C 059 (rotatable pool ftgs): Complete hole drilling today; NDRM written against RH fitting for machining defect in flange tip & radius. Disposition to clean up and dye pen inspect.

* Mesa: A/C 066 (rotatable pool ftgs): Finish Machining today; Go to Drilling process; ECD for overall process: 12/12.

* Mesa: A/C 083 (rotatable pool ftgs): Thru receiving ;go to machine shop.

Plan for 12-05-03

* A/C 85-0083: Complete install of Ftgs/Brgs; install hydro lines; restore flight controls and electrical; down jack. Prep for Wing Sweeps; Will work Sat. to catchback schedule. ECD this A/C: COB 12/09.

* Mesa: A/C 059 (rotatable pool ftgs): Complete hole drilling Mon. 12/8; ECD for overall process: 12/10.

* Mesa: A/C 066 (rotatable pool ftgs): Go into Machining today; complete machining 12/8; ECD for overall process: 12/12.

* Mesa: A/C 083 (rotatable pool ftgs): Go to machining after A/C 066 fittings: 12/8.

12-04-03

* A/C 85-0083: Measuring device was in PMEL for calibration. Worked with AF to get the job expedited to complete COB yesterday. Did trial install of fittings with production shims yesterday. Looked good, but could not verify actual gap dimensions. Tore assy's back down to measure fitting heights per SOW. Start Shr Ftg /Bearing reinstalls today if measurements are within tolerances to use existing shims. Worked panel refurb yesterday. Shr Fittings shipped to Mesa yesterday (12/3).

* Mesa: A/C 059 (rotatable pool ftgs): Complete machining today; move to hole drilling.

* Mesa: A/C 066 (rotatable pool ftgs): Move fittings to machine shop.

* Mesa: A/C 083 (rotatable pool ftgs): Arrive Mesa today

Plan for 12-02-03

* A/C 85-0083: Complete Shr Ftg removals; measure Shr Ftgs for shim requirements; box Shr Ftgs and ship to Mesa.

* Mesa: A/C 059 (rotatable pool ftgs): Go into Machining first (before A/C 066) due to earlier need date.

* Mesa: A/C 066 (rotatable pool ftgs): Go into work after A/C 059.

12-01-03

- * A/C 85-0083: Began work on Nov 25th; panels removed, systems stowed, hydro drained; Nov 26: hydro lines removed, Kevlar Curtains removed, jacked A/C. Begin to remove Bearings / Shr Fittings today.
- * Mesa: A/C 066 (rotatable pool ftgs): IWA placement last Wed morning; Fittings on dock this morning at Mesa (waiting for verification).
- * Mesa: A/C 059 (rotatable pool ftgs): IWA placement last Wed morning; Fittings on dock this morning at Mesa (waiting for verification).

Plan for 11-25-03

- * A/C 85-0066: Complete spring panel and cover strip installs and aerofare; move out of hangar; **A/C complete.**
- * A/C 85-0083: Prep. A/C 85-0083 for start of WSB repair; bring in hangar.
- * Mesa: A/C 066 (rotatable pool ftgs): IWA placement expected today (Tue); pending word to Ellsworth to send Shr Ftgs.
- * Mesa: A/C 059 (rotatable pool ftgs): IWA placement expected today (Tue); pending word to Dyess to send Shr Ftgs.

11-24-03

- * A/C 85-0066: Wing sweeps successfully completed Friday; installed Kevlar Curtains; complete installation of panels today.
- * Mesa: A/C 066 (rotatable pool ftgs): IWA placement inwork; hold Shear Fittings at EAFB and Dyess until IWA in place.

Plan for 11-21-03

- * A/C 85-0066: Perform wing sweeps; finish refurb of panels; install Kevlar Curtains; begin panel installs; A/C ECD 11/24
- * A/C 85-0083: Tentatively the next A/C set to start repair effort on 11/25.
- * Mesa: A/C 066 (rotatable pool ftgs): IWA placement inwork.

11-20-03

- * A/C 85-0066: Shr Ftg measurements completed..existing shims OK to use; Bearings and Shear Fittings installed; began systems resoration yesterday; installed hydro; servicing complete today;down jack today and prep for wing sweeps.
- * Mesa: A/C 066 (rotatable pool ftgs): IWA placement inwork; hold Shear Fittings at EAFB until IWA in place.

Plan for 11-18-03

- * A/C 85-0066: Work panel refurbishment; machine shims (if required);
- * Mesa: A/C 066 (rotatable pool ftgs): IWA placement inwork.

11-17-03

- * A/C 85-0066: Started work on 11/13. Completed all panel removals, systems stow, hydro deservice and line removal, Kevlar curtain removal; removed Bearings and Shear Fittings; measure for shim requirements today; hold Shear Fittings at EAFB until we work out plan with Mesa (IWA in place).
- * Mesa: A/C 066 (rotatable pool ftgs):IWA placement inwork.

Lance Borden

Team Lead

B-1B Flight Sciences

Project Team Lead

Shear Brg Repair CFT

Wing Pivot Brg Replacement

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Appendix B

CFT Aircraft Repair Schedule

Block E - PC Card Wing Shear - AMARC		2004											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
WSB	(86-0109)	Dyess Jet (Deferred AMARC) Nose Dock 31					6/23 6/27	7/13					
E/PC	(85-0077)	Ellsworth Jet (replaced 86-0135) Nose Dock 32					6/23 6/17	7/13 7/12					
DORSAL	(86-0130)	Ellsworth Jet Hangar 72					86-0130	7/23 7/15					
E/PC	(86-0099)	Ellsworth Jet Nose Dock 32					7/13 7/27	6/30 7/24					
E/PC	(86-0109)	Dyess Jet (Deferred AMARC) Nose Dock 31					7/19 7/13	8/7 8/5					
WSB	(86-0134)	AMARC Jet (Dyess) Hangar 74					7/21 7/13	8/6 8/1					
E/PC-WSB	(86-0112)	Dyess Jet FOL - Hangar 72					8/2 7/28	8/23 8/25					
E/PC	(86-0093)	Ellsworth Jet FOL Nose Dock 32						8/4 8/2	8/30 8/24				
E/PC	(85-0080)	Dyess Jet							8/24 9/14				
E/PC	(86-0125)	Dyess Jet							8/31 9/21				
E/PC	(86-0140)	Ellsworth Jet								9/17 10/13			

Require TCTO 1B-1B-1221
(DZUS Fasteners):
5-084 6-094 6-104
6-113 6-129 6-138
6-139

Replan Per APT Mtg 28 Jul 04

CFT - Dyess Wing Shear - AMARC		2004											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		Replan Per APT Mtg 28 Jul 04 Require TCTO 1B-1B-1221 (DZUS Fasteners): 5-084 6-094 6-104 6-113 6-129 6-138 6-139											
DORSAL	(85-0065)	Team On Route To Dyess 26 Sep 04 7/26 8/16 COC WSB Team Moves To Dyess											
WSB	(86-0140)	Dyess FOL - Tentative											
WSB	(85-0064)	Dyess - Deferred AMARC Tentative											
WSB	(86-0132)	Dyess FOL - Tentative											
WSB	(86-0101)	Dyess - Deferred AMARC Tentative											
WSB	(86-0097)	Dyess - Deferred AMARC Tentative											
WSB	(85-0090)	Dyess - Deferred AMARC Tentative											

Appendix C

Table of CFT and DFT In-Work or Completed SD11 Aircraft

Shear Brg Repair
STATUS
CFT at Ellsworth
7/30/2004

Repair # & A/C#	A/C Status	A/C home base	Planned Start Date	Revised Start Date	Actual Start Date	Planned Complete	Revised Complete	Actual Complete
Ellsworth CFT								
35* (1)	Complete	Ellsworth	11/07/03	11/13/03	11/13/03	11/25/03		11/26/03
36 (2)	Complete	Ellsworth	11/24/03		11/26/03	12/11/03	12/09/03	12/09/03
37 (3)	Complete	Ellsworth	12/09/03		12/10/03	12/26/03		12/29/03
38 (4)	Complete	Dyess	12/22/03	12/26/03	12/29/03	01/13/04	01/17/04	01/17/04
39 (5)	Complete	Ellsworth	01/19/04		01/19/04	02/11/04	02/04/04	02/03/04
40 (6)	Complete	Dyess	01/22/04**		01/22/04	02/13/04		02/13/04
61 (7)	Complete	Edwards	02/05/04		02/05/04	02/23/04		02/21/04
41 (8)	Complete	Dyess	02/19/04**	02/25/04	02/26/04	03/15/04	03/19/04	03/18/04
42 (9)	Complete	Dyess	03/17/04**	03/24/04	03/24/04	04/08/04	04/14/04	04/10/04
43 (10)	Complete	Dyess	04/13/04**	04/15/04	04/14/04	05/04/04	05/03/04	05/03/04
44 (11)	Complete	Dyess	06/05/04**		06/03/04	06/29/04	07/01/04	07/01/04
45 (12)	In Work	Dyess	06/30/04**	07/29/04	07/30/04	07/23/04	08/13/04	
56 (15)	Complete	Ellsworth	03/22/04		03/22/04	04/06/04		04/06/04
57 (16)	Complete	Ellsworth	04/07/04	04/12/04	04/12/04	04/22/04	04/24/04	04/24/04
58 (17)	Complete	Ellsworth	04/23/04	04/26/04	04/26/04	05/08/04	05/10/04	05/13/04
59 (18)	Complete	Ellsworth	05/10/04		05/11/04	05/24/04		05/24/04
60 (19)	Complete	Ellsworth	05/25/04	05/17/04	05/17/04	06/11/04	6/23/2004	06/24/04
62 (20)	Complete	AMARC	06/12/04	06/22/04	06/24/04	06/27/04	07/09/04	07/12/04
63 (21)	In Work	AMARC	06/28/04	07/16/04	07/21/04	07/15/04	08/06/04	
Dyess CFT								
46 (13)	Tentative	Dyess	07/26/04	08/16/04		08/17/04	08/31/04	
47 (14)	Tentative	Dyess	08/18/04	08/23/04		09/10/04	09/09/04	
64 (22)	Tentative	AMARC	07/16/04	09/01/04		07/31/04	09/17/04	
65 (23)	Tentative	AMARC	08/01/04	09/14/04		08/16/04	09/29/04	
66 (24)	Tentative	AMARC	08/17/04	09/17/04		09/01/04	10/07/04	
67 (25)	Tentative	IDL	09/01/04	09/28/04		09/19/04	10/14/04	

* Total A/C repaired or planned for repair since program inception.

** WSB concurrent with Blk E (6 Dyess A/C)

Appendix D

Cost Report

**SD11 ACTUAL DOLLARS BY FUNCTION
AS OF: JULY 29, 2004**

Function	Total \$\$
Proposal Prep	4,328
Financial Supt	36,187
Ellsw Engr'g	68,885
Ellsw Log	212,537
Ellsw Mat'l	52,782
QA (Long Bch)	34,561
Dyess Engr	135,632
Dyess Log	29,563
Dyess Matl	34,272
CFT Mech's	842,931
QA (Ellsworth)	120,545
Ellsw Trvl	78,809
Dyess Trvl	23,050
CAP	970,591
MESA	160,512
TOTAL	\$ 2,805,185
No Prop Prep	\$ 2,800,857

**SD11 ACTUAL HOURS BY FUNCTION
AS OF: JULY 29, 2004**

Function	Total Hrs
Proposal Prep	34.4
Financial Supt	348.0
Ellsw Engr'g	552.1
Ellsw Log	2,995.2
Ellsw Mat'l	513.4
QA (Long Bch)	354.6
Dyess Engr	1,075.5
Dyess Log	425.9
Dyess Matl	270.4
CFT Mech's	12,064.6
QA (Ellsworth)	1,711.7
Ellsw Trvl	-
Dyess Trvl	-
CAP	2,917.7
MESA	1,799.8
TOTAL	25063.3
No Prop Prep	25028.9